The **AG200 and AG300 Acoustic Guitar Amplifiers** offers state-of-the art performance for the serious acoustic artist.

The instrument preamps include a Hi-Z impedance switch for minimal pickup loading to let the full frequency range of any type of pickup ring true with full dynamics. The active tone controls are designed for natural sounding, yet powerful tone shaping. The deep cutting ability of the MID Parametric EQ extends control over acoustic feedback by using the sweepable FREQ filter to reduce the feedback frequency. Add the lush ambient effects to the amazing definition and tone sculpting for sound that is naturally pleasing to the ear.

Rich, natural tones are delivered from two-way or three-way speaker systems, featuring a titanium tweeter for exceptional full range performance - from shimmering, crystal-clear highs to full bottom end. The high headroom 200w internal amp (250w with extension) maintains the purity that only high power can provide. Whether you are using nylon, steel, gut, silver or silk-wound strings that are picked, plucked, strummed or bowed, the true fidelity of your instrument is faithfully reproduced.

In addition to its amazing acoustic guitar amplification qualities, the AG200 and AG300 also function as a portable PA system thanks to a three-channel architecture, phantom-powered mic inputs, portable media player input, USB charging port and high power. Sing and play guitar with backing tracks through one convenient amplifier with impressive output and big sound.

The light weight, premium features and rugged construction, including the exclusive “lock-in” AC cord, will make the AG200 or AG300 an indispensable part of your acoustic performance.

- Lightweight, compact acoustic amplifier with pure, natural tone and excellent projection
- 200w output (250w at 4 ohms) cool running Class D operation
- Amp limiter built-in to the help prevent clipping distortion
- AG200: 2-way dual 6.5” speakers and HF titanium tweeter
- AG300: 3-way 12” woofer with 6.5” mid and HF titanium tweeter
- 3-Channel design
- 3 balanced XLR inputs
- 2 Instrument Piezo/Magnetic inputs
- 1/8” jack Stereo input
- Hi-Z impedance switch allows full dynamics and extended frequency range
- Gain switch accomodates different instruments
- 48V Phantom Power switch
- Parametric EQs on channels 1 & 2
- Deep cut allows control over feedback
- DUAL onboard DSP with lush Echo, Reverb & Chorus
- Optional FS22 footswitch bypass for DSP effects
- Direct Out XLR with level, DC isolated and ground lifted
- Tuner/Headphone output jack
- External Speaker jack for 8 ohms
- Effects Loop for external processors
- Pole mount for commercially available speaker stands
- Built-in tilt back handle (AG200) for better projection as a monitor
- Exclusive “lock-in” AC cord prevents accidental disconnect
- Designed and manufactured by Carvin in the USA

GETTING STARTED

1. With POWER off, connect an instrument to CH1 or CH2 INPUT jack.
2. Set the channel VOLUME and MASTER volume to “0”.
3. Set the channel tone controls to their center “0” position. This is the “FLAT” setting for the amp.
4. Now, turn the amp ON. Turn up the channel VOLUME to about “5”. Gradually increase the MASTER control to the desired level. If no sound is heard, turn down the MASTER and check the POWER(blue) LED.
5. Adjust the tone controls to your liking. Keep in mind that turning up a tone control isn’t always the answer. Sometimes turning down one of the MID controls will get you the sound you want.
6. Need more volume? First, try the channel GAIN switch to compensate for instruments with lower outputs.

There is a limit to the amount of volume a speaker can produce, and driving a speaker beyond its limit can damage it. Even though these are powerful amplifiers, adding another speaker is the only way for substantially more output.

Have fun exploring the features and sounds of your **AG** amp. Take the time with your new amp to realize its full potential.

AG200 **AG300**

RECEIVING INSPECTION—read before getting started

INSPECT YOUR UNIT FOR DAMAGE which may have occurred during shipping. If damage is found, please notify the shipping company and CARVIN immediately.

SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. This will provide the best possible protection during shipment. CARVIN and the shipping company are not liable for any damage caused by improper packing.

SAVE YOUR INVOICE. It will be required for warranty service if needed in the future.

SHIPMENT SHORTAGE. If you find items missing, they may have been shipped separately. Please allow several days for the rest of your order to arrive before inquiring.

RECORD THE SERIAL NUMBER on the enclosed warranty card for your records. Keep your portion of the card and return the portion with your name and comments to us.

USA and Canada customers register online at: **www.carvin.com/registration**
All other countries register online at: **www.carvinworld.com/registration**

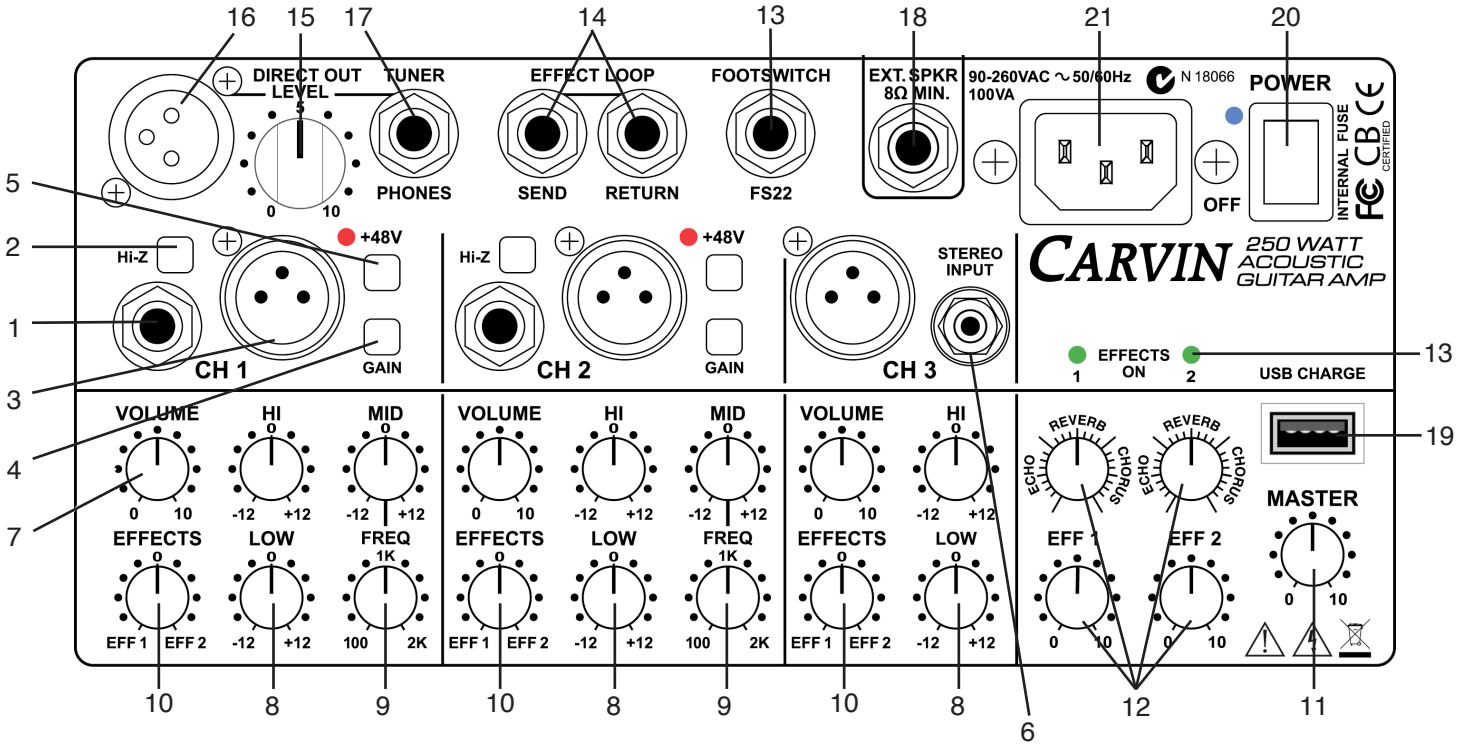
SPECIFICATIONS

Output Power:	200W @ 8 Ohms, THD <1%, 250W @ 4 Ohms, THD <1%
Frequency Response:	20Hz - 20kHz amplifier section
Speaker Configuration:	**AG200:** 2-way; Dual 6.5” LF / 1” NEO HF
	AG300: 3-way; 12” LF / 6.5” MID / 1” NEO HF
Input Impedance:	1/4”: >100K or >500K ohms (switchable)
	XLR: 2.2K ohms
Gain switch:	+12dB (CH. 1 and 2)
Phantom Power:	+48V (CH. 1 and 2)
Tone Controls:	**HI** 8.5kHz, +/-12dB
	LOW 70Hz, +/-12dB
Mid/Feedback Control:	parametric **MID**: 100Hz-2kHz, +/-15dB (CH. 1 and 2)
Direct Out:	variable OFF to +4dBu, DC isolated, 100ohm gnd lift
Effect Loop:	-10dBV, buffered
Protection:	speaker, thermal, over current, under voltage
Power Amp topology:	Class D
Power Supply topology:	High frequency switch mode
AC Power Requirements:	90 to 250VAC 50/60 Hz, 100VA
Dimensions	**AG200**: 18.5”H x12.75”W x11.5”D (470 x 324 x 280mm)
	AG300: 18.5”H x17”W x12”D (470 x 432 x 305mm)
Weight :	**AG200**: 26.1 lbs. (11.85 kgs)
	AG300: 30.5 lbs. (13.85 kgs)
Warranty:	One year parts and labor
Optional Accessories:	**SS20, SS15** pole stands
	FS22 footswitch
	CVMB10(AG200), **CVMB12 (AG300)** vinyl covers
Extention Speakers:	**200AGE**: 2-way; Dual 6.5” LF / 1” NEO HF
	300AGE: 3-way; 12” LF / 6.5” MID / 1” NEO HF

CARVIN

carvin.com 800-854-2235

AG200/AG300 CONTROLS



1. 1/4" INPUT JACK

The 1/4" input jacks are voiced for guitar and are designed to work equally well with active or passive instruments with piezo or magnetic pickups.

2. HI-Z (IMPEDANCE) SWITCH

The Hi-Z switch will raise the input impedance of the 1/4" INPUT to above 500K Ohms. Pressing this switch IN allows the full tonal range and dynamics of passive pickups to be heard, and can also benefit active pickup systems. If the sound is to bright for your liking or if there is excess noise, set the Hi-Z switch to the OUT position.

3. XLR INPUTS

The XLR input can be used to mic vocals or instruments or as an input from direct box or active intruments.

4. GAIN SWITCH

The GAIN switch will increase the sensitivity of the 1/4" and XLR inputs by +12dB. Set the GAIN switch IN to compensate for instruments or microphones with low outputs. For low volume situations or to get the best dynamics from high output instruments, set the GAIN switch to the OUT position.

5. +48V (PHANTOM POWER) SWITCH

Reduce the VOLUME or MASTER before switching this switch or a "pop" will result. The PHANTOM POWER switch provides power to condenser microphones, active direct boxes or active instruments connected to the XLR input. The red LED will indicate the PHANTOM POWER is ON. Leave this switch OUT if phantom power is not needed.

6. STEREO INPUT

The STEREO INPUT on Channel 3 is an 1/8" jack for input from your MP3 music source. The USB CHARGE port in the MASTER section provides power to keep your device charged.

7. CHANNEL VOLUME

Use the VOLUME to control the volume of each instrument or microphone. The GAIN switches on CH1 and CH2 will also affect the level. Reduce the VOLUME if your sound becomes distorted.

8. HI AND LOW TONE CONTROLS

The HI and LOW controls are custom shaped tone controls designed to deliver full sounding lows and sparkling highs for a variety of instruments. When a control is turned to the right it boosts the signal and when turned to the left cuts the signal. The affected frequencies for the LOW start at 140Hz and go down to 40Hz. Be careful not to distort the output or overpower your speakers. The affected frequency for the HI control begins at 4kHz and higher.

9. PARAMETRIC MID SWEEP TONE CONTROLS (MID & FREQ) / CONTROLLING FEEDBACK

The FREQ control does not function if the MID control is set in the center "0" position. To demonstrate, turn the MID to the right for full boost. Now play your instrument and turn the FREQ control from left to right and notice how the added mids change frequency. Now turn the MID to the full left and turn the FREQ control again and notice the mids disappear at different frequencies. The MID sweep is a powerful tone shaping tool.

The deep cut available from the MID allows control over acoustic feedback. With the MID control turned to the left, turn the FREQ control until the feedback stops. You can then re-adjust the MID level to just before feedback occurs. For a full size acoustic guitar, the frequency is usually around 200-300 Hz.

10. EFFECTS 1 OR 2 CONTROL (CHANNEL)

The EFFECTS control adjusts the effects level going to the one of the internal DSP processors. Because there are dual effects, each channel has its own two-way level control allowing you to select EFF 1 or EFF 2 for that channel. Turning counter-clockwise to the left will send the channel to the EFF 1 processor and turning clockwise to the right will send the channel to the EFF 2 processor. Adjust the effects type and overall level with master EFF 1 and EFF 2 controls.

11. MASTER VOLUME

Use the MASTER to control the overall volume of the amplifier. Reduce the MASTER if your sound becomes distorted.

The Master does not affect the DIRECT OUT or TUNER/PHONES outputs.

12. MASTER EFF 1 & EFF 2 CONTROLS

The AG amplifiers feature dual DSP effects processors, featuring lush effects of ECHO, REVERB and CHORUS.

Adjust the overall level of each effect with the lower EFF1 and EFF 2 controls.

The upper EFF 1 and EFF 2 controls select the effect type and adjust time, decay, regeneration and speed settings depending on the effect type.

ECHO: When the top EFF 1 or EFF 2 control is in the lower 1/3 of rotation, it selects the ECHO effect. The lowest setting is a short "Slapback" where you get a short, single repeat echo. Turning the control to the right will increase the length of delay and number of repeats.

REVERB: When the control is the middle 1/3 of rotation, it selects the REVERB effect. Turning the control to the right increases the reverb decay time.

CHORUS (w/Reverb): When the control is in the last 1/3 of rotation, it selects the CHORUS effect, with optional Reverb. The first setting will be a slow chorus swell without Reverb. Turning the control to the right will increase the Chorus speed. REVERB is added at the half-way mark and the Chorus speed settings are repeated from slow to fast.

13. FOOTSWITCH FS22 JACK / EFFECTS ON LEDS

You can remotely turn the two effects off and on by plugging in the optional FS22 footswitch. Each EFFECT ON green LED will turn off when the effect is shut off by the footswitch.

14. EFFECT LOOP SEND & RETURN JACKS

The SEND jack is the output of the preamp and is designed to deliver the proper level to the input of an external effects processor. The SEND signal source is after the TONE CONTROLS and DSP EFFECTS. The RETURN jack is designed to receive signals from the output of an external effects processor. When a signal is plugged into the RETURN, it breaks the connection between the preamp and the internal power amp. The RETURN signal goes through the MASTER control to the power amp.

15. DIRECT OUT LEVEL (DIRECT OUT, TUNER/PHONES)

The DIRECT OUT LEVEL controls the output level of the XLR DIRECT OUT and the 1/4" PHONES/TUNER jack. This contains the mixed signal from the channels affected by the tone controls, internal DSP and the effects loop. The DIRECT OUT level is not affected by the MASTER level.

16. DIRECT OUTPUT XLR JACK

The DIRECT OUT XLR jack provides a balanced output for going direct to the main PA or recording input. The output level is adjusted from the front panel DIRECT OUT LEVEL control. The DIRECT OUT signal is not affected by the MASTER level. However, the signal is affected by the channel VOLUME and TONE controls, internal EFF1/EFF2, and the EFFECT LOOP. The XLR is protected against Phantom power (DC voltage) on cables coming from phantom powered mixer inputs. Ground pin 1 of the XLR is lifted to 100 ohms above the chassis ground to prevent hum from grounding issues.

17. PHONES/TUNER JACK

The PHONES/TUNER jack is a stereo 1/4" jack designed for connecting a tuner or headphones. The volume is adjusted by the DIRECT OUT LEVEL control. To listen to headphones without hearing the other speakers, turn down the MASTER and adjust the headphone volume with the DIRECT OUT LEVEL control.

18. EXTERNAL SPEAKER OUTPUT

The AG200 and AG300 have one 1/4" extension speaker output connector, which is connected in parallel with the internal 8 ohm speakers. You may connect another speaker with an impedance of 8 ohms or higher. If you go below the minimum speaker load, the amp may shut off. To reset the amp, turn off the POWER switch and connect the recommended load.

For greater coverage, the 200AGE and 300AGE extention cabinets are available.

19. USB CHARGE OUTLET

The USB CHARGE port in the MASTER section provides USB +5v power to keep your device charged. One device can be powered at a time.

20. POWER SWITCH

The POWER switch turns the amp ON or OFF. The BLUE POWER LED will light approximately 2-4 seconds after the the POWER switch is turned on.

21. AC POWER JACK & FUSE

The AC POWER JACK will accept 90VAC to 250VAC, 50Hz or 60Hz. A detachable locking power cord is supplied (for European 230V use a CEE-7 plug cord set). Plug the cord into a grounded 3 prong power source. No attempt should ever be made to use the amp without the ground connected.

The FUSE is located internally near the AC input. To check or replace, first remove the power cord and then the enclosure lid. The fuse type is a 250V Slow Blow rated at 5A.

A locking AC cord (Carvin part# 120V18L7) is supplied with the amp. However, a standard AC cord can be used.

To detach the cord from the amp, press the release lever on the underside of the cord near the amp.

Helpful Hints

NO SOUND:
The channel VOLUME or MASTER volume are set to "0".
The Effect Loop RETURN jack is used without a signal going to the RETURN jack.

POOR HIGH FREQUENCIES:
The HI tone control is set too low.
Set the Hi-Z impedance switch IN for CH.1 or CH.2.

AMP SEEMS VERY SENSITIVE TO INPUT SIGNALS:
The channel VOLUME or MASTER volume is turned too high.
Turn OFF the GAIN switch for CH.1 or CH.2.

GUITAR OR MICROPHONE FEEDBACK:
Use the MID and FREQ controls to reduce the feedback frequency.
Keep the face of the instrument or the mic pointed away from the speaker.
Reduce the channel VOLUME or MASTER volume, or set the GAIN switch OUT.

INTERMITTENT SOUNDS WHEN SMARTPHONE IS CONNECTED AS A MUSIC PLAYER:
Set the phone or device to "Airplane" mode to prevent noise from wireless data transfer. This is will also prevent hearing call rings or text notifications through the amp input during performances.

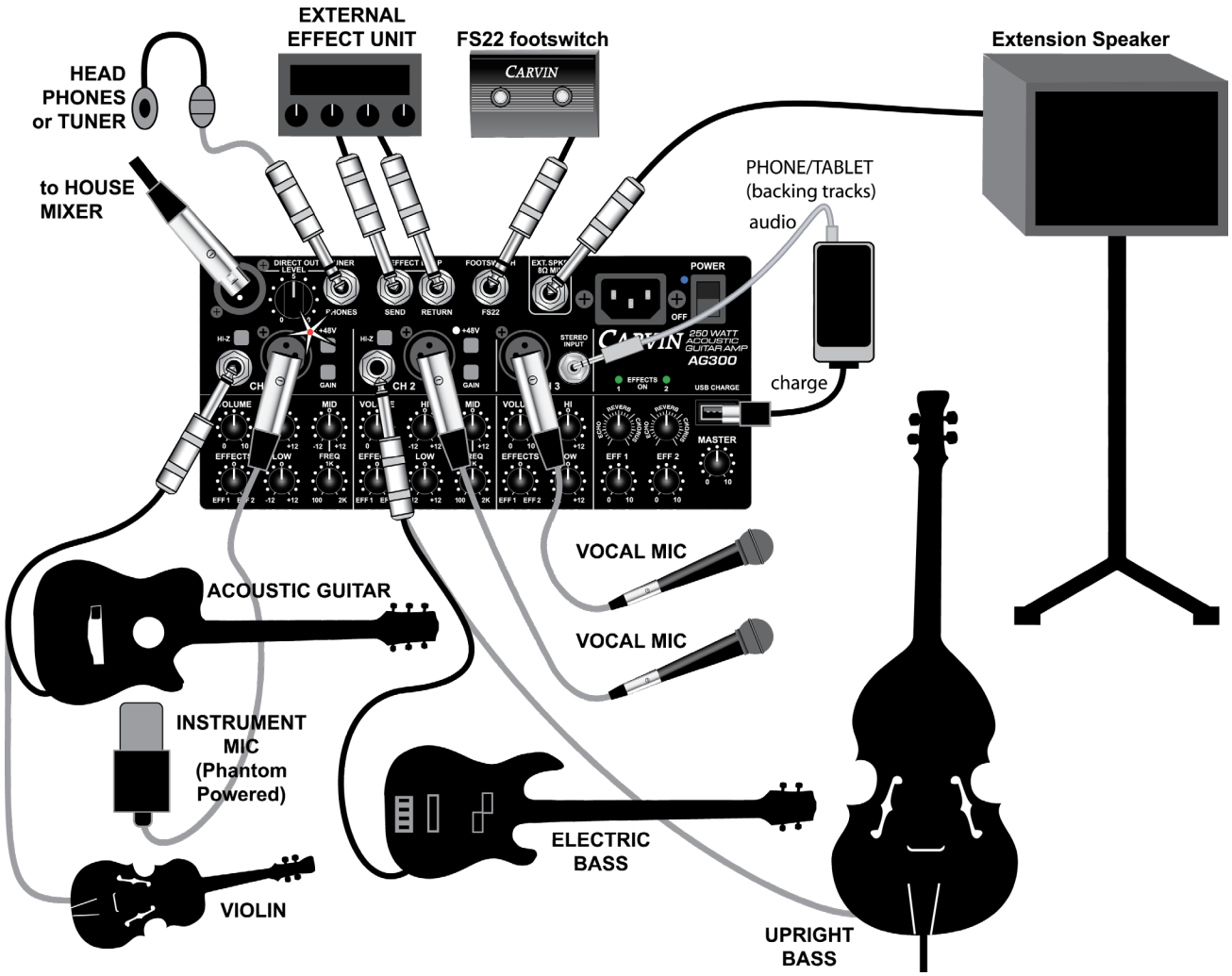
DEVICE DOES NOT CHARGE WHEN CONNECTED TO USB CHARGE PORT:
The phone or device battery is too low and is pulling too much power from the charge port.

DIR XLR HUM:
Check for noise from external effects or bad cabling.

POOR BASS FROM MULTIPLE ENCLOSURES:
Make sure the external speaker is in phase with the internal speaker. Check the wiring of each cabinet for the correct phase, reverse (+/-) on the external cabinet if needed.

FOR MAXIMUM OUTPUT:
To get more output, use an extension speaker. Every time you double your speakers, your acoustic output goes up by a factor of four.

AG200 / AG300 EXAMPLE SETUP:



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING:

WATER AND MOISTURE: Appliance should not be used near water (near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

POWER SOURCES: The product should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

GROUNDING OR POLARIZATION: Precautions should be taken so that the grounding or polarization is not defeated.

POWER CORD PROTECTION: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs.

SERVICING: The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

FUSING: If your unit is equipped with a fuse receptacle, replace only with the same type fuse. Refer to replacement text on the unit for correct fuse type.

SAFETY INSTRUCTIONS (EUROPEAN)

The conductors in the AC power cord are colored in accordance with the following code.

GREEN & YELLOW—Earth BLUE—Neutral BROWN—Live

U.K. MAIN PLUG WARNING: A molded main plug that has been cut off from the cord is unsafe. NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAIN PLUG INTO A POWER SOCKET.

LIMITED WARRANTY

Your Carvin product is guaranteed against failure for 1 YEAR unless otherwise stated. Carvin will service and supply all parts at no charge to the customer providing the unit is under warranty. Shipping costs are the responsibility of the customer. CARVIN DOES NOT PAY FOR PARTS OR SERVICING OTHER THAN OUR OWN. A COPY OF THE ORIGINAL INVOICE IS REQUIRED TO VERIFY YOUR WARRANTY. Carvin assumes no responsibility for horn drivers or speakers damaged by this unit. This warranty does not cover, and no liability is assumed, for damage due to: natural disasters, accidents, abuse, loss of parts, lack of reasonable care, incorrect use, or failure to follow instructions. This warranty is in lieu of all other warranties, expressed or implied. No representative or person is authorized to represent or assume for Carvin any liability in connection with the sale or servicing of Carvin products. CARVIN SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

MAINTAINING YOUR EQUIPMENT

Avoid spilling liquids or allowing any other foreign matter inside the unit. The panel of your unit can be wiped with a dry or slightly damp cloth in order to remove dust and bring back the new look. As with all pro gear, avoid prolonged use in caustic environments (salt air). When used in such an environment, be sure the amplifier is adequately protected.

SERVICE

In the USA go to www.carvinservice.com.

Outside the USA, contact your dealer or go to http://www.carvinworld.com for your nearest service center. Include a written description of the problem with serial number and date of purchase.

CAUTION

RISK OF ELECTRIC SHOCK

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL! THIS UNIT CONTAINS HIGH VOLTAGE INSIDE!